Ground-Water Modeling with Analytic Elements: cultivating understanding of ground water systems Part III

6/7/01

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Home Page:

http://www.epa.gov/athens/software/whaem/index.html

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Ecosystems Research
Division, EPA
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Outline

I. Introduction

II. AEM Basics

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III. AEM Applications

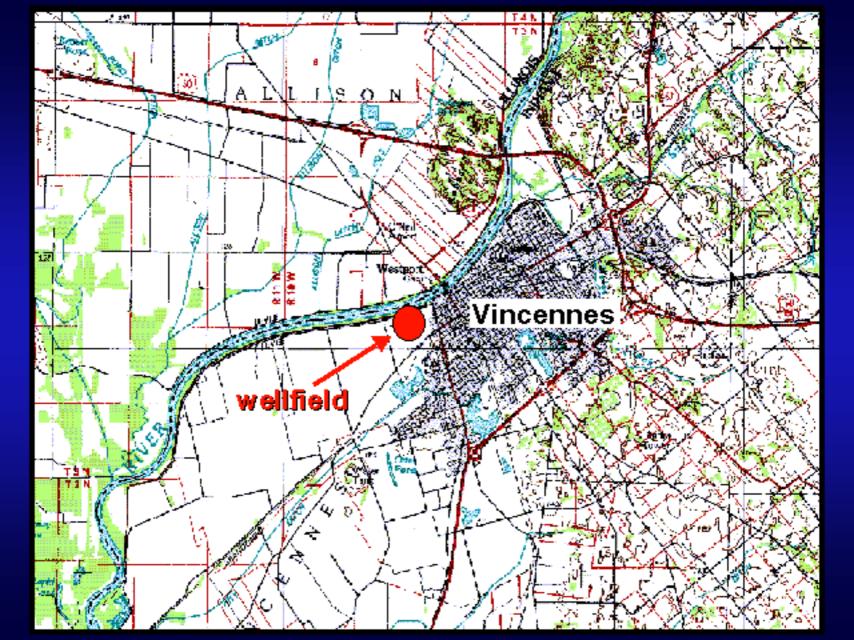
- Modeling of regional groundwater flow near proposed nuclear waste repository
 --- Yucca Mountain, NV
- Delineation of source water area for public water wells --- Vincennes, IN

Working with WhAEM2000

Source Water Assessment for a Glacial Outwash Wellfield, Vincennes, Indiana

Steve Kraemer, EPA Athens, GA Henk Haitjema, Indiana University, Bloomington, IN Vic Kelson, WHPA Inc., Ellettsville, IN

step-wise approach -----

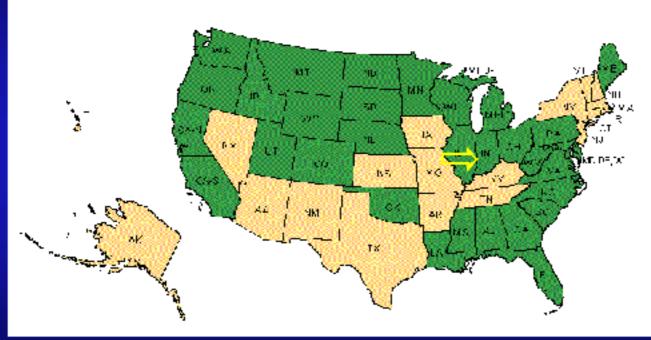




CENTER FOR EXPOSURE ASSESSMENT MODELING

WhAEM - Binary Base Map Browser and Data

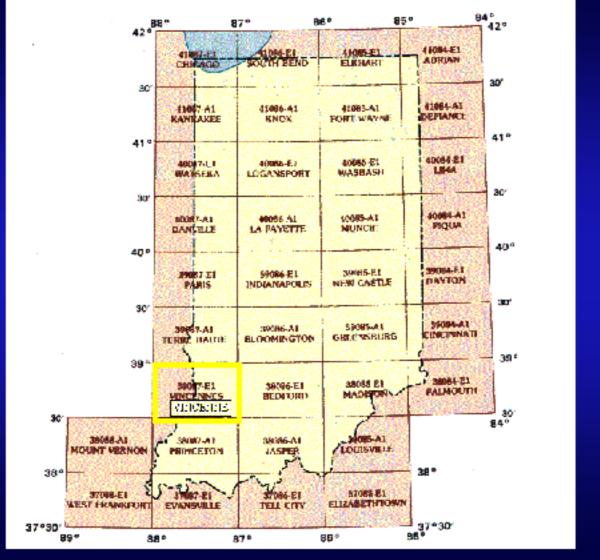
Select a state shaded in green. Detail instructions are available.

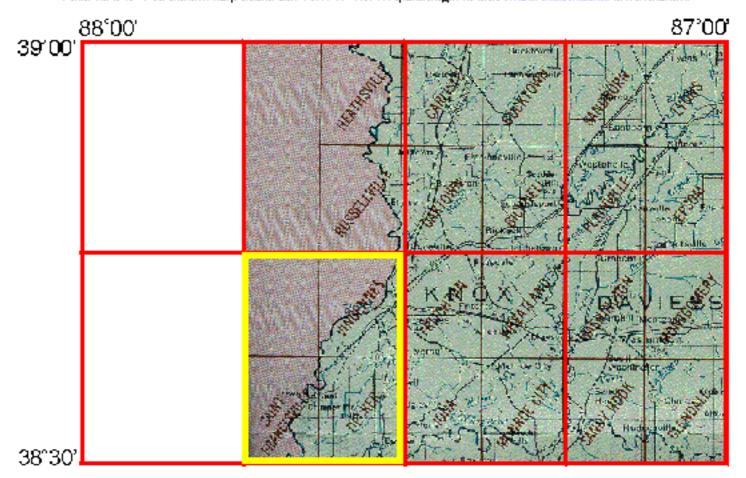


Courtesy of OAO Corporation, Athens

Jim Evans, CorelDraw Graphics Allen Rowell, Perl Scripts Stephen Alberty, HTML Support

Click on a 30 s 60 Minute Map from the IN map below. Detail instructions are available.



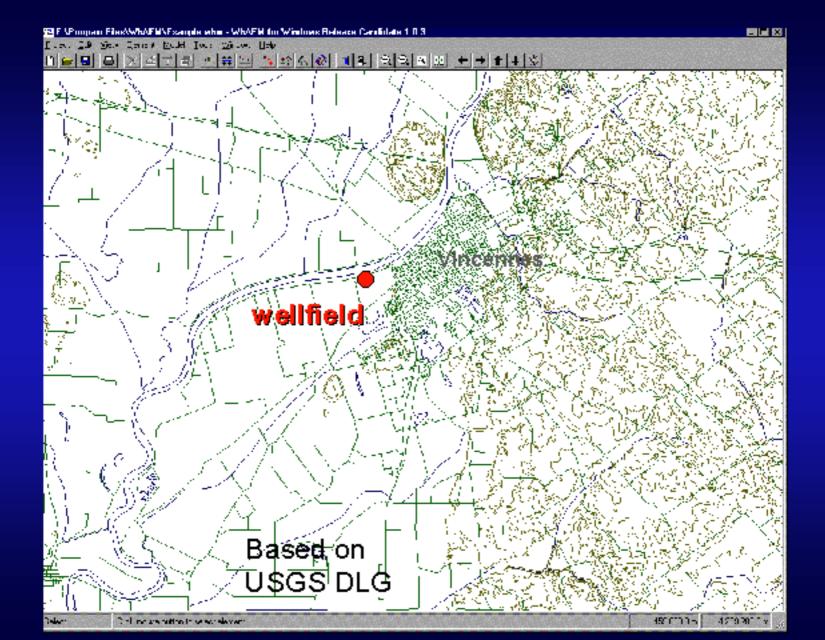




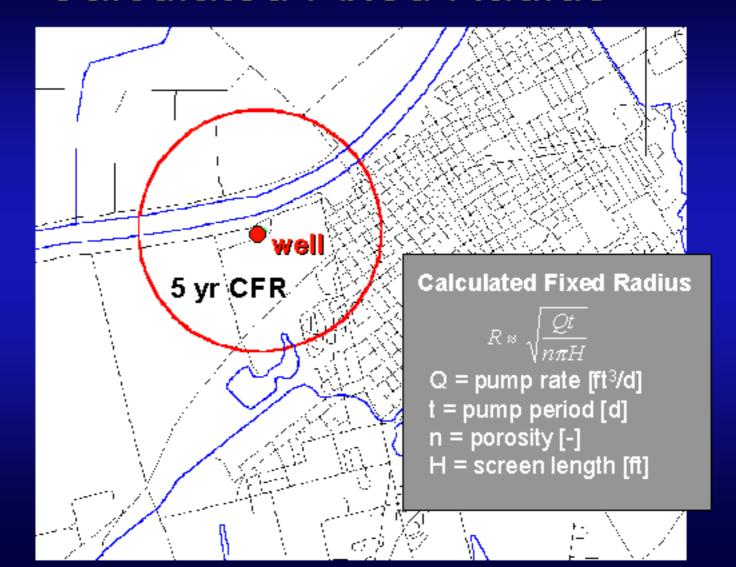
WhAEM2000

Graphical User Interface and Solver, Vic Kelson of Kelson Consulting Principal Investigator and Help System, Henk Haitjema of Haitjema Consulting Project Officer, Steve Kraemer of US Environmental Protection Agency

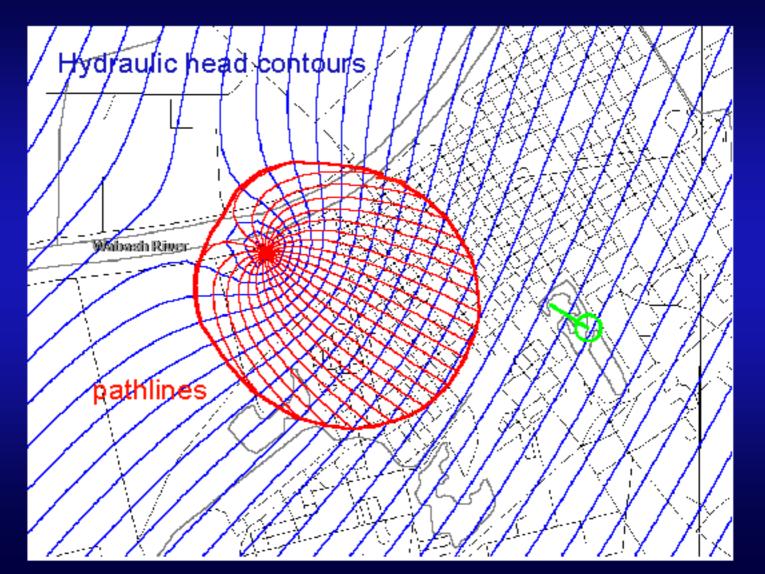
This program makes use of the programs 'tar' and 'gzip', which were published by the Free Software Foundation and are covered by the GNU Public License. See the file COPYING for details or visit www.gnu.org for details.

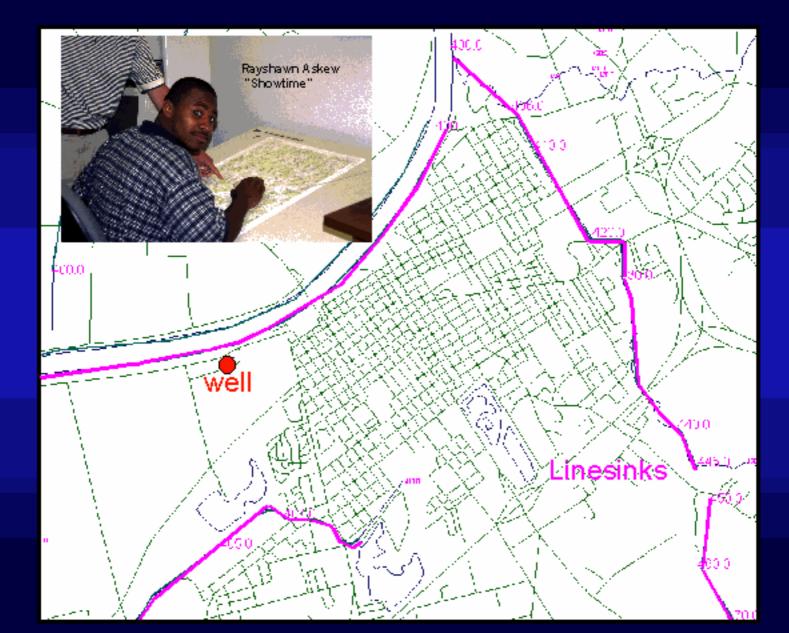


Calculated Fixed Radius

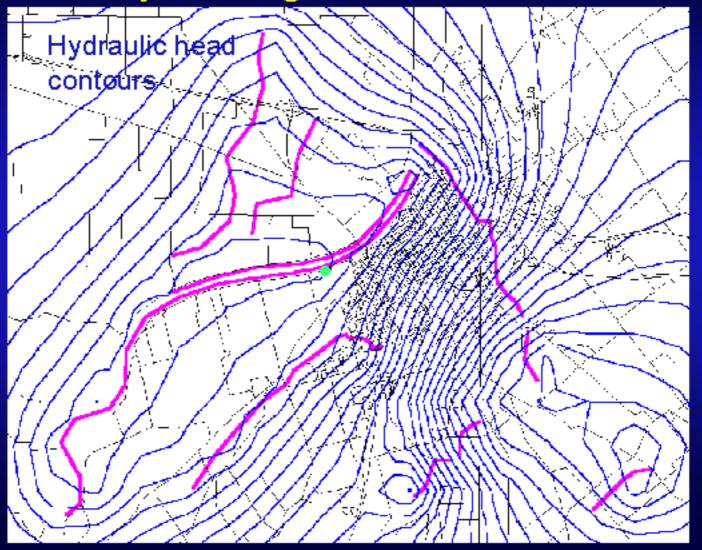


Well in uniform flow field

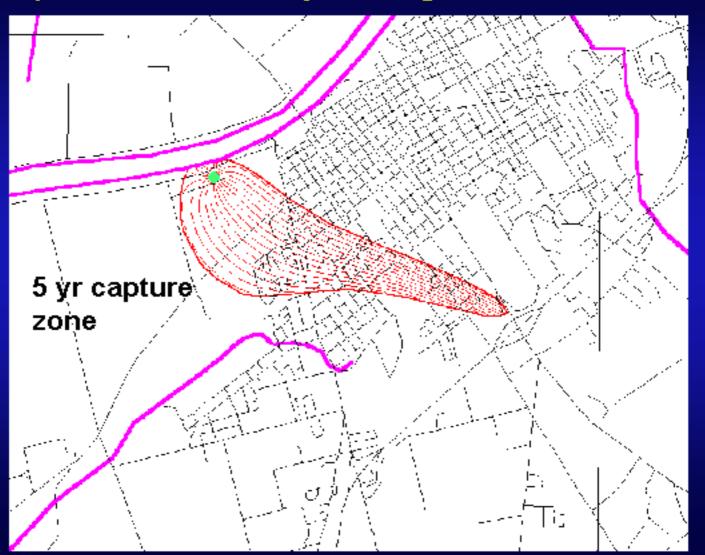




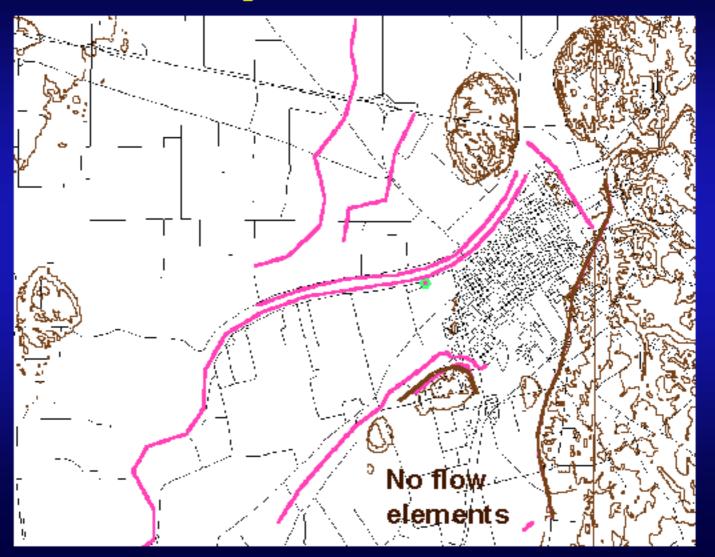
Geohydrologic boundaries



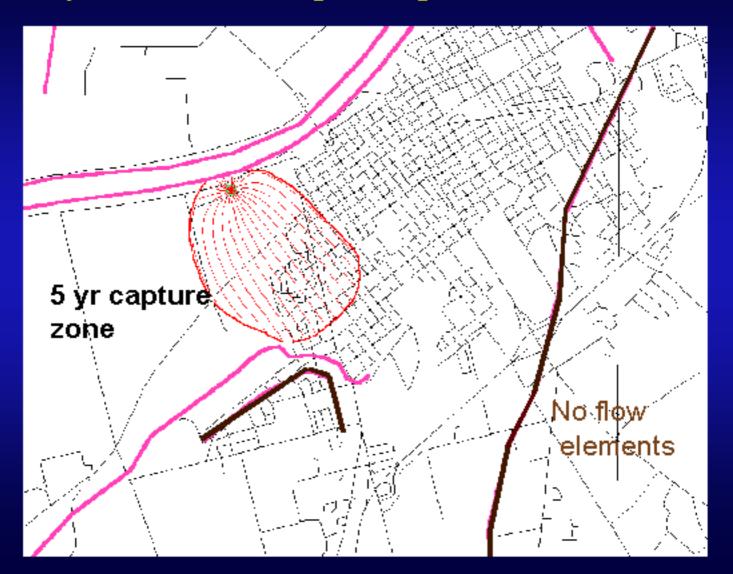
Capture Zone - hydrologic boundaries



Geologic boundaries



Capture Zone - geologic boundaries



Capture Zone - geologic boundaries

